

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number
WO 2005/055553 A3

(51) International Patent Classification⁷: H04L 29/06

(21) International Application Number:
PCT/EP2004/053143

(22) International Filing Date:
26 November 2004 (26.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0314076 1 December 2003 (01.12.2003) FR

(71) Applicant (for all designated States except US): THOMSON LICENSING S.A. [FR/FR]; 46, quai Alphonse Le Gallo, F-92100 Boulogne (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BORDES, Philippe

[FR/FR]; 6, impasse des coquelicots, F-35890 Laille (FR). GUILLOTTEL, Philippe [FR/FR]; 15 rue Auguste Renoir, F-35770 Vern sur Seiche (FR). LORETTE, Anne [FR/FR]; 31 rue Emile Bernard, F-35700 Rennes (FR).

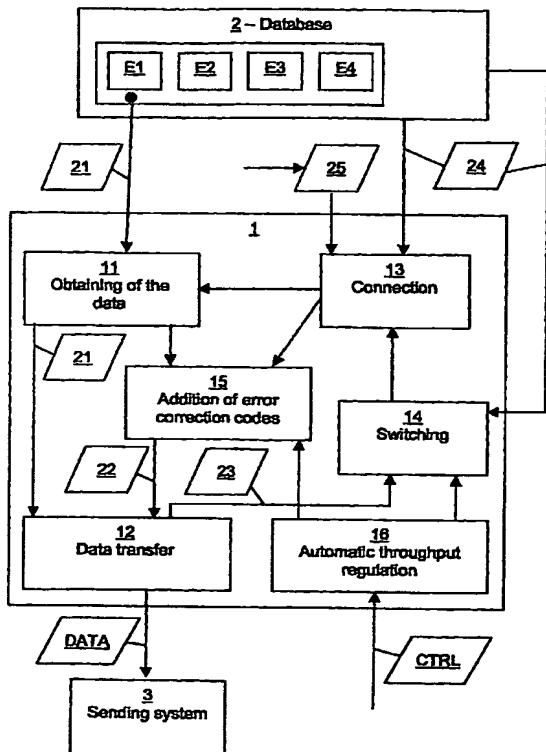
(74) Agent: KERBER, Thierry; Thomson, 46, quai Alphonse Le Gallo, F-92648 Boulogne Cedex (FR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, TZ, UG, ZM,

[Continued on next page]

(54) Title: DEVICE AND METHOD FOR THE PREPARATION OF SENDING DATA AND CORRESPONDING PRODUCTS



(57) Abstract: The present invention relates to a device (1) and a method for the preparation of data (21) to be sent as a continuous stream via a communication network. The device comprises means for obtainment (11) of the data originating from a database (2), which contains at least two data stream entities (Ej) for data associated respectively with different transmission throughputs (24), means of transfer (12) of these data to a sending system (3), means of connection (13) to one of these entities, and means of switching (14) of the means of connection from one of the entities to another. The preparation device also comprises means of regular addition (15) to the data transferred, of error correction codes (22). The means of switching switch from a first entity to a second entity of greater throughput, when this augmented data stream (DATA) reaches the sum of the sending throughput associated with the second entity and of an additional throughput (possibly zero) associated with an initial input of error correction codes of the second entity, and the means of addition reinitialize the addition of the codes to this initial input upon this switching. Application to streaming over IP network.



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:
15 September 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*